SDH TRANSPORT
Flexible Add/Drop Multiplexer

FLX600A

Flexibility and Survivability for SDH-Based Network Services

FLX600A is a highly flexible system that can be configured into a number of possible operating modes. It can serve as a hub or a digital cross-connect (DXC) system and is ideal for building advanced ring, linear, and point-to-point networks.

The FLX network can be managed efficiently and cost effectively using FLEXR® *Plus* or FLEXR® management platforms. This can be done remotely using an X.25 link or an LCN, or locally using a direct connection.

Main Features

- Flexibility and upgradability (including in-service)

- Modular plug-in unit design

- High survivability against transmission failures (protection of equipment and traffic at the line, path, and unit levels)

- Digital cross-connect capability allowing flexible traffic routing

- Quick and easy downloading of software upgrades from the network management system

- Alarm and performance reporting to the management system

- Efficient maintenance operation using orderwire, housekeeping, and 64 kbps user channel
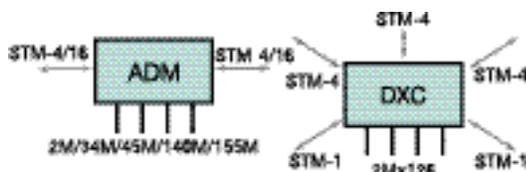
Flexible Configurations

Multiplexer: aggregates STM 4/16, 2/34/(45)/140 Mbps tributaries, and STM-1/4

> Hubbing (HUB): ideal as a central node
>
> Add/Drop (ADM): ideal for linear networks (L-ADM) and ring networks (R-ADM)
>
> Terminal (TRM): ideal for point-to-point networks

DXC systems: cross connects any pair of signals transferred over STM-1/4/16 lines at any VC level and is ideal for a simple meshed network and for an inter-ring application.

FUJITSU

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Features and Specifications

Aggregate Capacity

2 x STM-4 or 2 x STM-16

Tributary Capacity

Number of interface ports/unit:	2M: 21
	34/45M: 3
	Others: 1

Maximum number of each interface port: (Protected/unprotected)	126 x 2M, 6 x 34M, (6 x 45M), 4 x 140M, 4 x STM-1 electrical, 5 x STM-1 optical, 1 x STM-4

1 x STM 4/1 plus an additional STM-4 of capacity configured among the interface options above, subject to some restrictions.

Cross-Connect Level

VC-12, VC-3, and VC-4

Cross-Connect Capacity

16 x STM-1 equivalent (1,008 x VC-12)

Synchronization interfaces

2.048 Mbps: ITU-T G.703 or 2.048 MHz: ITU-T G.703

Network Management Interfaces

Local terminal interface:	V.24
NMS interface:	X.25/LCN

Protection

Unit protection	2M(3:1)/34M, (45M), 140M, STM-1 electrical (1+1)
Traffic	1+1 MSP protection: STM-1 optical, STM-4 VC path protection: VC-12, VC-3, or VC-4

Input Voltage Range

-48/-60 V DC nominal

Power Consumption

STM-4 linear ADM with 2M x 126 (3:1) and STM-1 electrical (1+1) x 2 and STM-4 (1+1) x 1 tributaries: 330 W

Shelf Dimensions

875 (H) x 450 (W) x 280 (D) mm

Temperature Range

0 to 45°C

Relative Humidity

Up to 95% at 25°C

Specifications subject to change without notice.

FLX 600A Multiplexers (Hubbing, Add/Drop, Terminal) Digital Cross-Connect (DXC) System

FLX600A/DS/1.0/8.99/CM